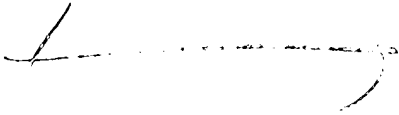


CLAIMS

I claim:

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1. A data transfer method comprising steps of
- (a) examining a TV video signal, comprising electromagnetic (EM) waves distributed over time, for finding a time slot with a suitable EM wave transient rate;
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- (b) generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal in said time slot having said suitable EM waves transient rate; and
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- (c) transmitting said data-carrying TV signal to a TV and a data receiver.
2. The data transfer method of claim 1 wherein:
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- said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting a frequency-modulated (FM) data signal into said time slot having said suitable EM wave transient rate.
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3. The data transfer method of claim 1 wherein:
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- said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting multiple frequency-modulated (MF) data signals into said time slot having said suitable EM wave transient rate.
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said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting a phase-modulated (PM) data signal into said time slot having said suitable EM wave transient rate.

5. The data transfer method of claim 1 wherein:

said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting a multiple-phase-modulated (MP) data signal into said time slot having said suitable EM wave transient rate.

6. The data transfer method of claim 1 wherein:

said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting a modulated data signal with a compensated format (CF) into said time slot having said suitable EM wave transient rate.

7. The data transfer method of claim 1 wherein:

said step (b) of generating a data-carrying TV signal by inserting into said TV signal a hidden-from-viewer data signal comprising a step of inserting a compensated-amplitude (CA) modulated data signal into said time slot having said suitable EM wave transient rate.

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said step of inserting said data signal into said time slots employed for black level data transfer (BLDT) comprising a step of inserting a phase-modulated (PF) data signal into said time slot employed for BLDT.

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said step of inserting said data signal into said time slots employed for black level data transfer (BLDT) comprising a step of inserting a differential amplitude (DA)-modulated data signal into said time slot employed for BLDT.

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said step of inserting said data signal into said time slots employed for blank level data transfer (KLDT) comprising a step of inserting a frequency-modulated (FM) data signal into said time slot employed for KLDT.

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said step of inserting said data signal into said time slots employed for blank level data transfer (KLDT) comprising a step of inserting a compensated amplitude (CA) modulated data signal into said time slot employed for KLDT.

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said step (a) of rearranging said TV signal into said non-viewer-interfering data-carrying TV signal comprising a step of arranging said TV signal according to an invisible frame data transfer (IFDT) method by determining a TV pixel signal in an invisible frame and employing said TV pixel signal for transmitting a data signal.

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said step (a) of employing said TV pixel signal in said invisible frame for transmitting a data signal comprising a step of transmitting a modulated data signal with a compensated format (CF).

44. The data transfer method of claim 38 wherein:

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said step (a) of employing said TV pixel signal in said invisible frame for transmitting a data signal comprising a step of transmitting a compensated-amplitude (CA) modulated data signal.

45. The data transfer method of claim 38 wherein:

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said step (a) of employing said TV pixel signal in said invisible frame for transmitting a data signal comprising a step of transmitting a differential amplitude (DA) modulated data signal.

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46. A video game system comprising:

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a TV signal interface/decoding means for receiving a TV signal encoded with a video-game data-signal therein for decoding and employing said data signal.

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47. The video game system of claim 46 wherein:

said TV signal interface/decoding means comprising a TV interface means for receiving said TV signal encoded with said data-signal from a TV.

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48. The video game system of claim 46 further comprising:

a video game controller for allowing a video game player to control and play a video game on said video game system.

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a TV signal interface/decoding means for receiving a TV signal encoded with a data-signal comprising stock price data.

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[illegible]